UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,024	12/30/2003	Parimal Pal Chaudhuri	075005.0102	9229

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EXAMINER
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ART UNIT	PAPER NUMBER
2136	

NOTIFICATION DATE	DELIVERY MODE
09/28/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)
Office Action Summary	10/749,024	CHAUDHURI, PARIMAL PAL
	Examiner	Art Unit	
	Fikremariam Yalew	2136	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>17 July 2007</u>.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-30</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-30</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>30 December 2003</u> is/are: a)☐ accepted or b)☒ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date <u>12/30/2003</u>.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

1.   Claims 1-30 have been examined.

2.   Applicant's election of claims 1-30 in the reply filed on 07/12/2007 is

acknowledged. Because applicant did not distinctly and specifically point out the

supposed errors in the restriction requirement, the election has been treated as an

election without traverse (MPEP § 818.03(a)).

Drawings

3.   The drawing is objected to because figures 5-7 can't be clearly seen. Correction

is required.

Claim Rejections - 35 USC § 102

4.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> (e) the invention was described in (1) an application for patent, published under section 122(b), by
> another filed in the United States before the invention by the applicant for patent or (2) a patent
> granted on an application for patent by another filed in the United States before the invention by the
> applicant for patent, except that an international application filed under the treaty defined in section
> 351(a) shall have the effects for purposes of this subsection of an application filed in the United States
> only if the international application designated the United States and was published under Article 21(2)
> of such treaty in the English language.

5.   Claims 1-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Lafe US

Patent No 6456744 B1

6.   As per claims 1,11,21: Lafe discloses a method/system/logic encoded in media

of encompressing a data stream, comprising: compressing vectors from the data stream

using one or more Multiple Attractor Cellular Automatas (MACAs)(See col 2 lines 30-

38,col 15 lines 49-51); and

encrypting the compressed vectors using multiple Cellular Automata (CA)

transforms(See col 9 lines 13-53,col 11 lines 38-46).

7.   As per claims 2,12,22: Lafe discloses the method/system/logic encoded in media

wherein compressing the vectors and encrypting the compressed vectors is a single

integrated process implemented with a program executed on a Programmable CA

(PCA)(See col 5 lines 30-35,col 8 lines 29-48).

8.   As per claims 3,13,23: Lafe discloses the method/system/logic encoded in media

further comprising generating a code-book, the one or more MACAs operable to

perform binary searches in the code-book to compress the vectors from the data stream

(col 5 lines 20-63 and col 6 lines 46-60).

9.   As per claims 4,14,24: Lafe discloses the method/system/logic encoded in media

further comprising storing the code-book using one or more multi-stage MACA-based

two class classifiers which act as implicit memory to store the code-book(See col 11

lines 38-57).

10.   As per claims 5,15,25: Lafe discloses the method/system/logic encoded in media

wherein compressing the vectors from the data stream using one or more MACAs

comprises deriving code-book indices for the vectors (See col 5 lines 30-35,col 8 lines

29-48).

11.   As per claims 6,16,26: Lafe discloses the method/system/logic encoded in media

wherein encrypting the compressed vectors using multiple CA transforms comprises

using a series of reversible transforms that use one or more of linear CA, additive CA,

and non-linear CA configured in a PCA at one or more different time steps (See col 6

lines 32 through col 7 lines 65).

12.   As per claims 7,17,27: Lafe discloses the method/system/logic encoded in media

comprising encrypting the compressed vectors using four levels of CA transforms (See

col 6 lines 32 through col 7 lines 65).

13.   As per claims 8,18,28: Lafe discloses the method/system/logic encoded in media

wherein encrypting the compressed vectors using multiple CA transforms comprises

using one or more of linear transformations, affine transformations, and non-affine

transformations (See col 6 lines 32 through col 7 lines 65).

14.   As per claims 9,19,29: Lafe discloses the method/system/logic encoded in media

further comprising transmitting the encompressed data across a communications

link(col 3 lines 47-50 and col 4 lines 29-53).

15.   As per claim 10,20,30: Lafe discloses the method/system/logic encoded in media

further comprising decrypting the transmitted encompressed data using multiple CA

transforms (See col 9 lines 14-35 and col 11 lines 50-67).

Conclusion

16.   The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. See PTO 892.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fikremariam Yalew whose telephone number is

5712723852. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Moazzami Nasser can be reached on 571-272-4195. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fikremariam Yalew   Art Unit 2136
09/17/2007   NASSER MOAZZAMI
FA   SUPERVISORY PATENT EXAMINER
                                              TECHNOLOGY CENTER 2100

                                                9/19/07